

LT1761 100mA Low Noise Micropower LDO Regulator

DESCRIPTION

Demonstration circuit DC330 comprises two low noise micropower voltage regulators using the [LT[®]1761](#) in the 5-lead SOT-23 package. These circuits are primarily used in cellular phones, voltage controlled oscillators, RF power supplies and as local regulators in larger systems. Their ability to tolerate a wide variety of output capacitors makes them ideal in space- and cost-sensitive systems.

ADDENDUM

DC330 Summary and Background

Starting around February 2021, the LT1761 demonstration circuit was changed from DC330A which used obsolete 1mm jumpers to set the output voltages to DC330B which used non-obsolete 2mm jumpers for the same purpose. The change was necessary to complete a rebuild and the rebuild was normal other than the change to the jumpers so there weren't any additional changes to the hardware except to shift component placements so the new jumpers would fit. It is possible to do a DC330A versus DC330B comparison because the DC330A version demo manual

includes a schematic, layer drawings, fabrication drawing and a parts list that can be compared to the design files for DC330B. Specifically, the changes between DC330A and DC330B are:

1. **Schematic:** The jumpers to set the output voltages were redrawn. No reference designators changed. The title block was updated.
2. **Layer Drawings:** The silkscreen for the top layer was updated for the latest company logo and some component placements shifted to fit the larger jumpers that set the output voltages.
3. **Fabrication Drawing:** The fabrication drawing was updated to the latest drafting standards.
4. **Parts List:** No change was made to the parts list except the jumpers to set the output voltages were changed and part numbers were updated according to the normal procedure for rebuilds.

[Design files for this circuit board are available.](#)

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ESD Caution

ESD (electrostatic discharge) sensitive device. Charged devices and circuit boards can discharge without detection. Although this product features patented or proprietary protection circuitry, damage may occur on devices subjected to high energy ESD. Therefore, proper ESD precautions should be taken to avoid performance degradation or loss of functionality.

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